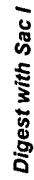


pKOS293-88-1_Synthon_vector



Treat with Exonuclease III



FIGURE 3

FIGURE 3A

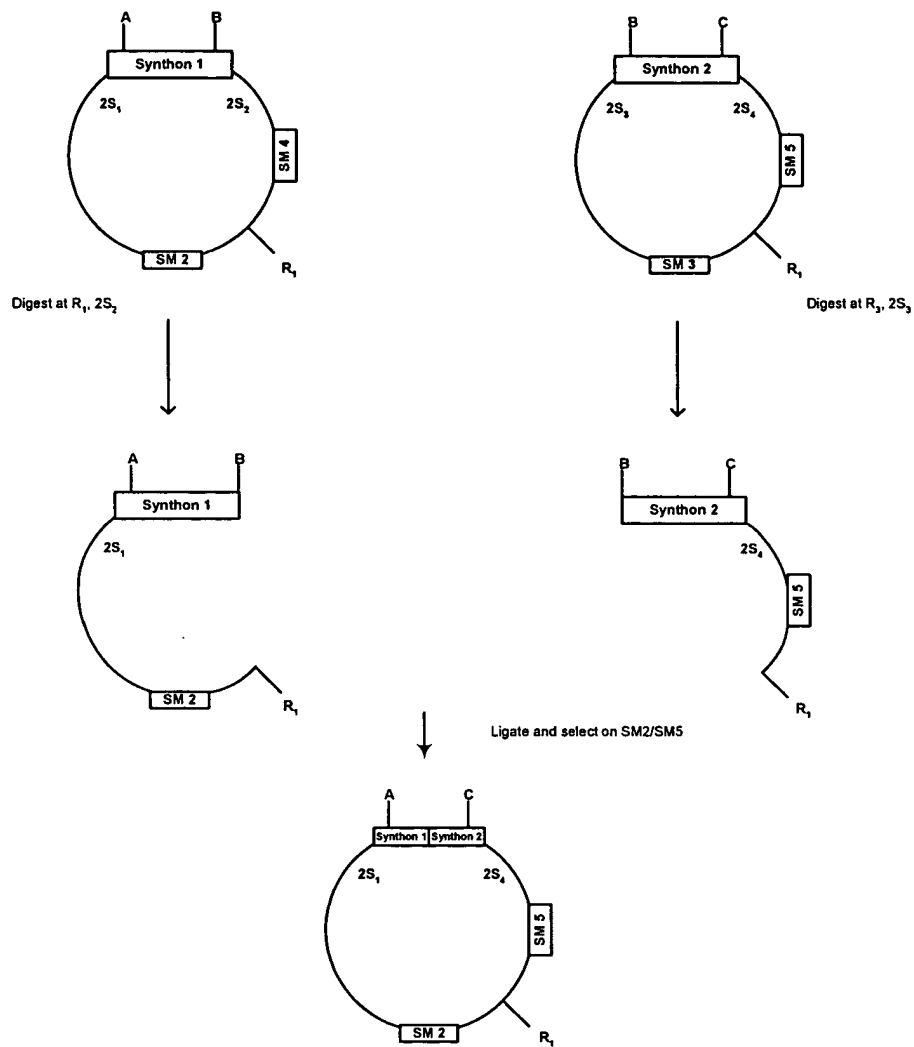


FIGURE 3B

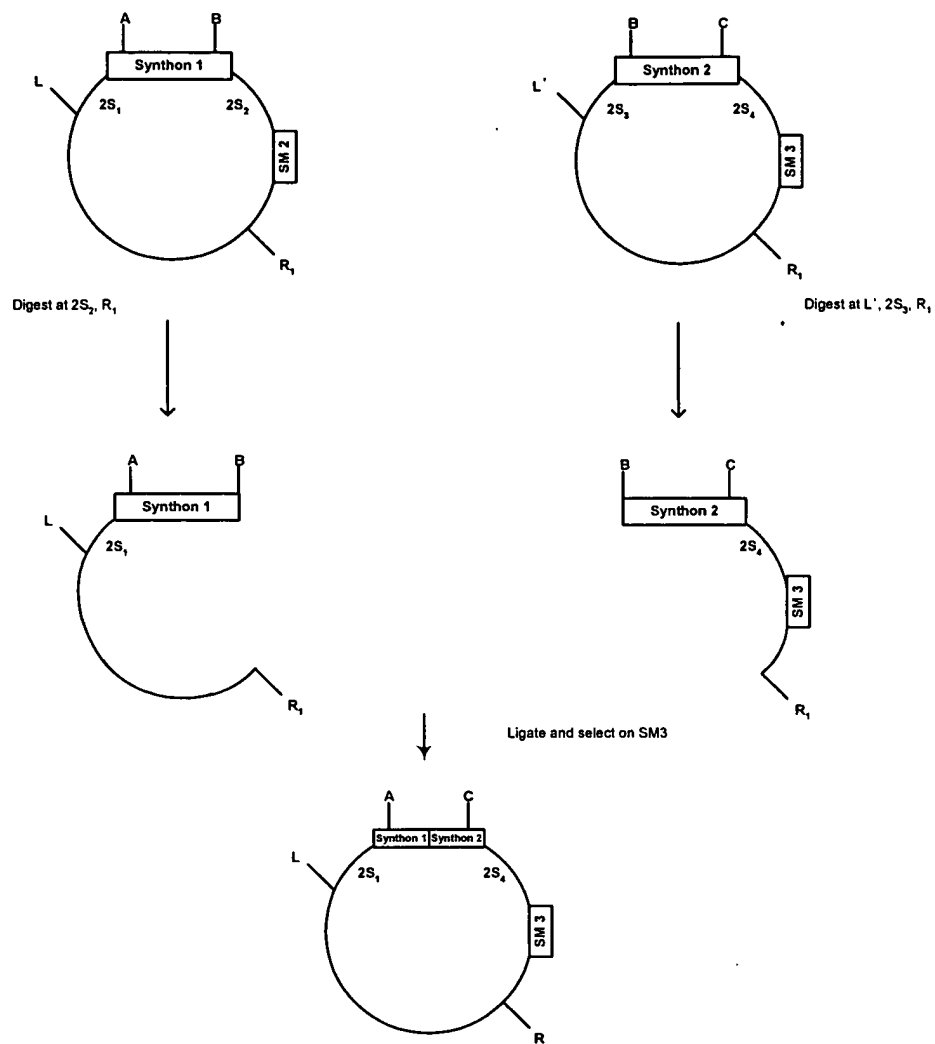


FIGURE 4

A4. Vector pKos293-172-2

4B. Vector pKos293-172-A76

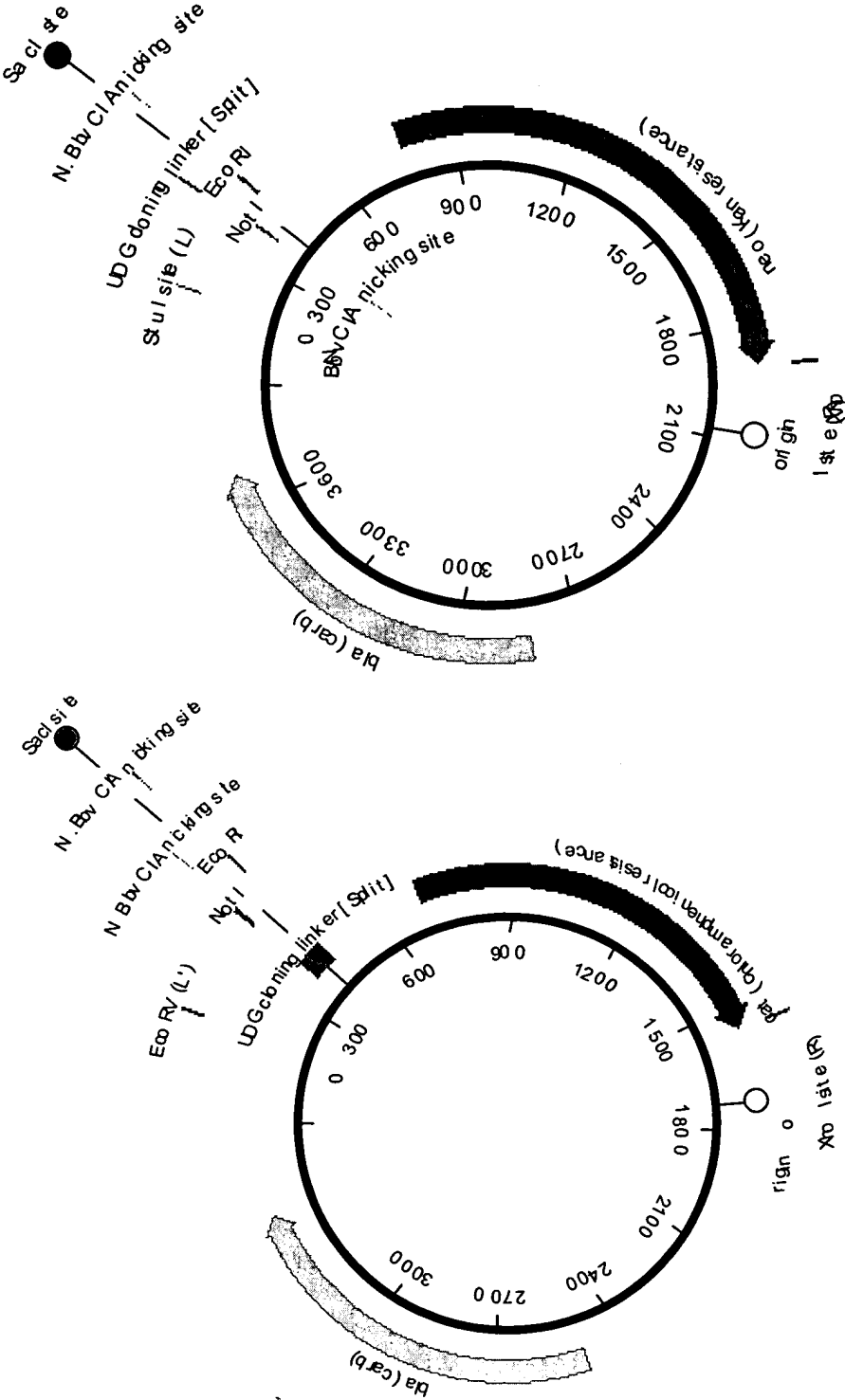


FIGURE 5

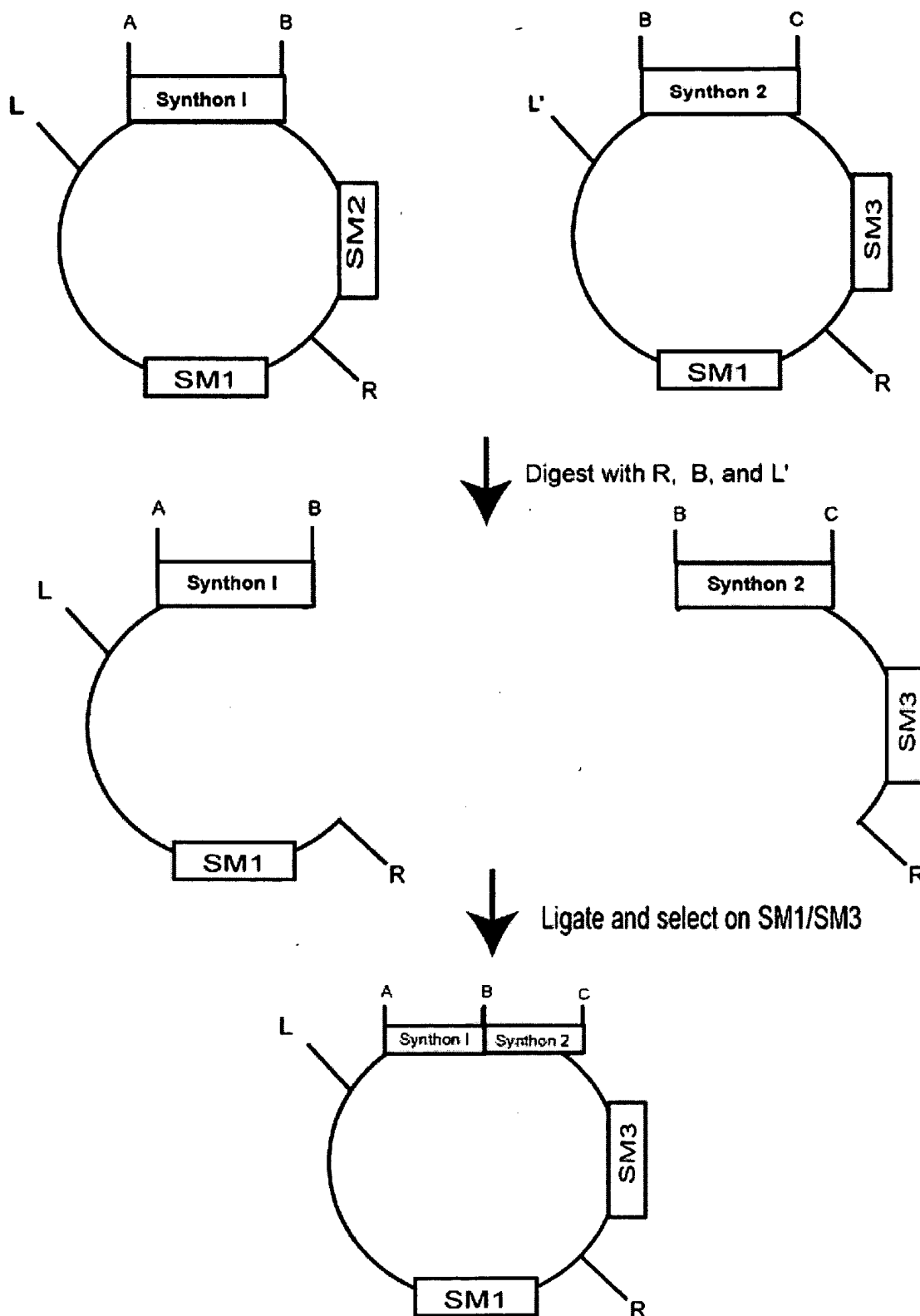
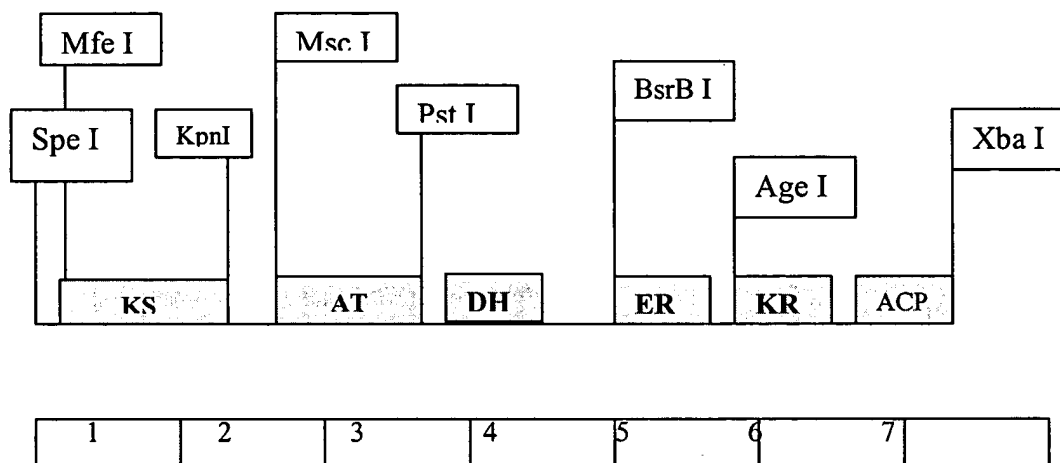


FIGURE 6



6B.

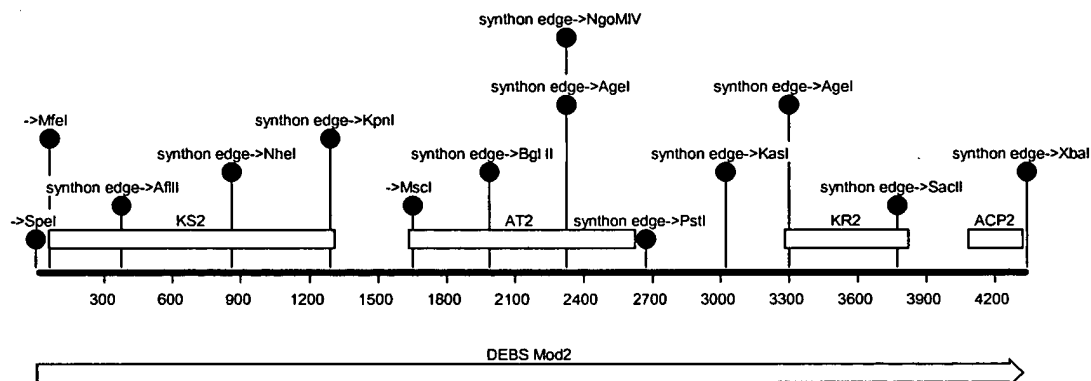
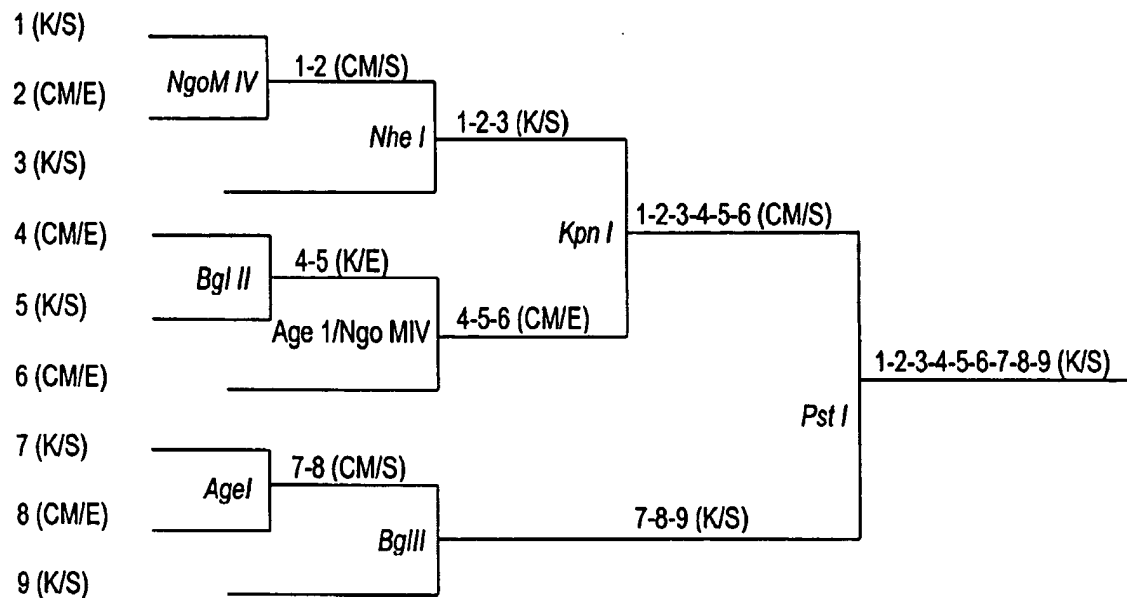


FIGURE 7

Stitching and Selection Strategy



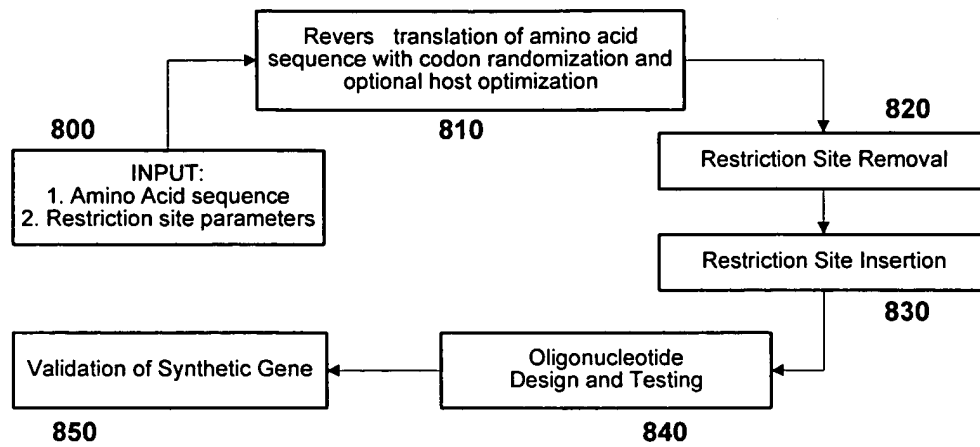


FIGURE 8

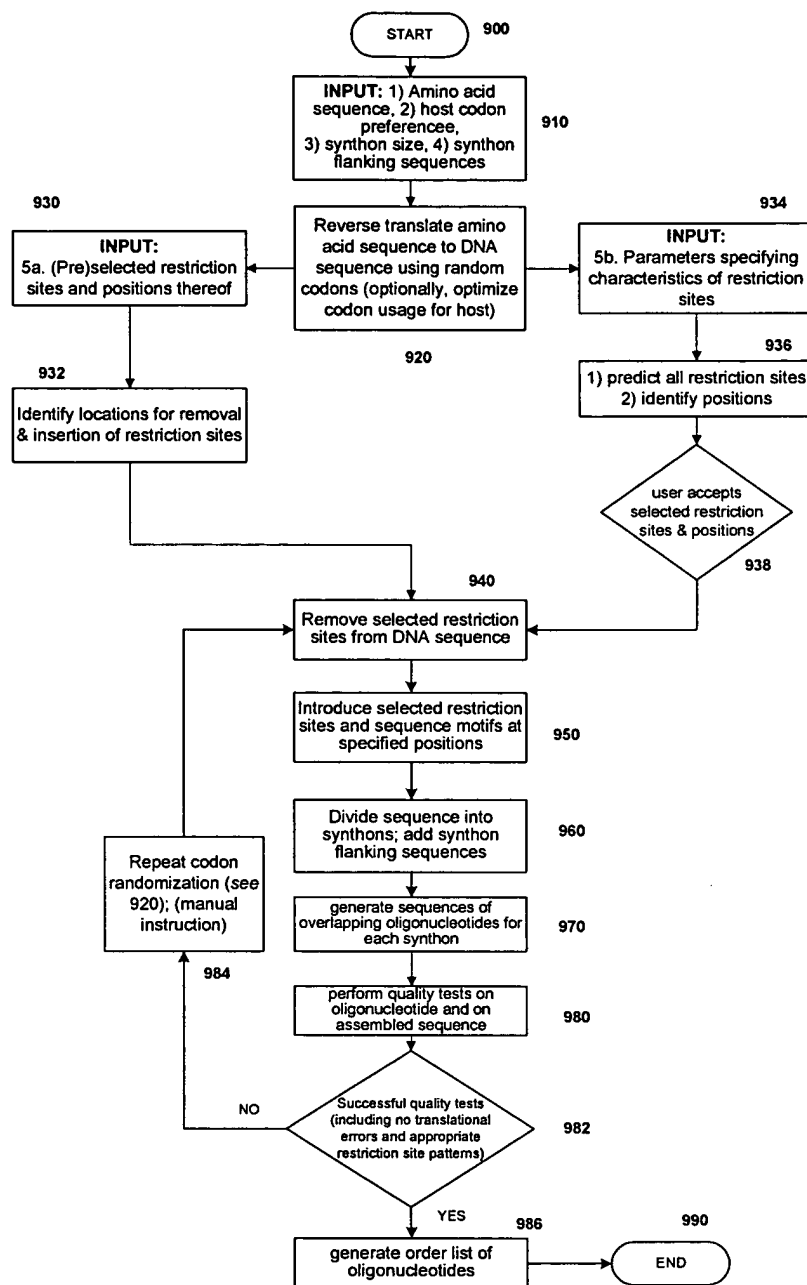


FIGURE 9. GeMS algorithm chart

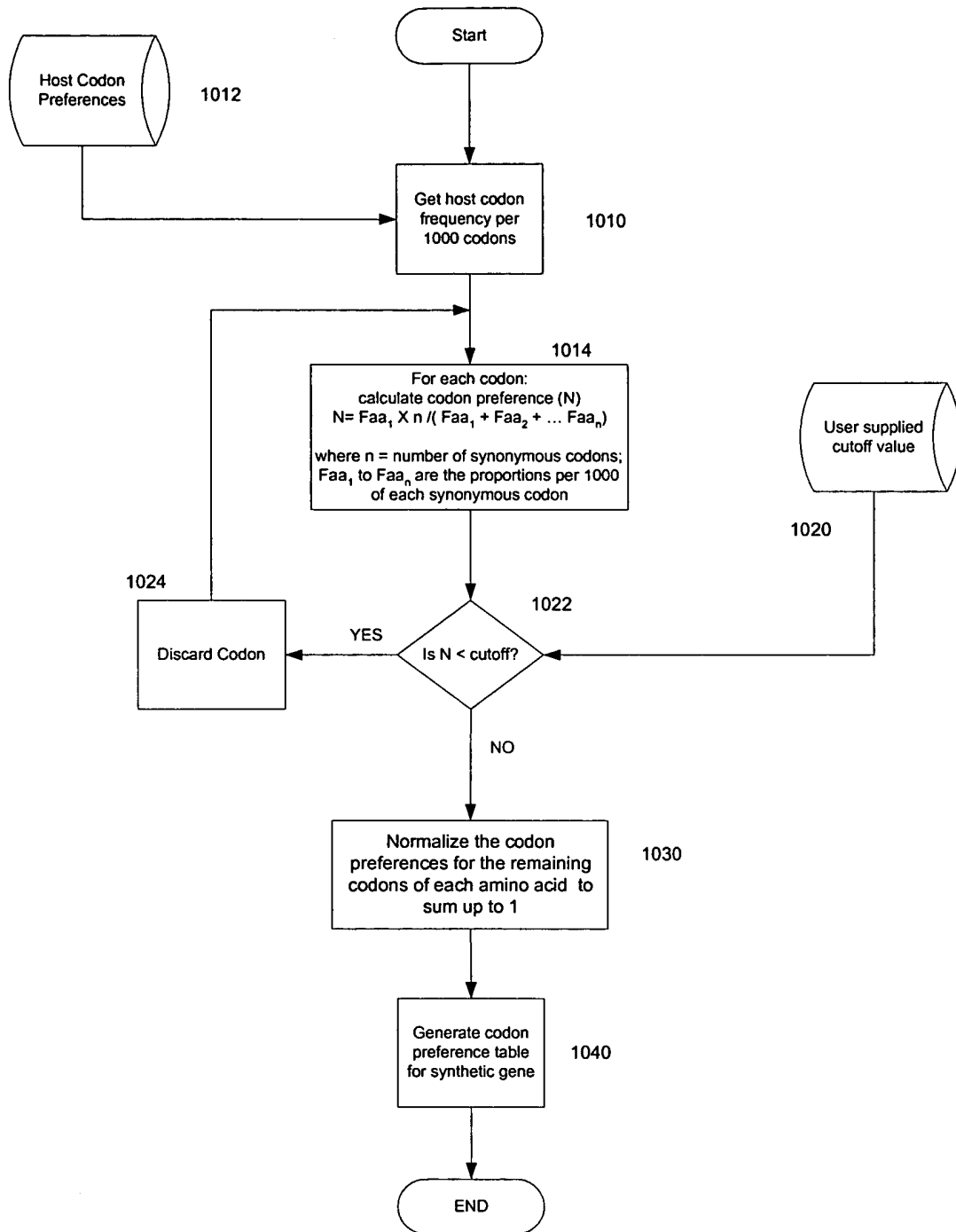


FIGURE 10A. Codon optimization

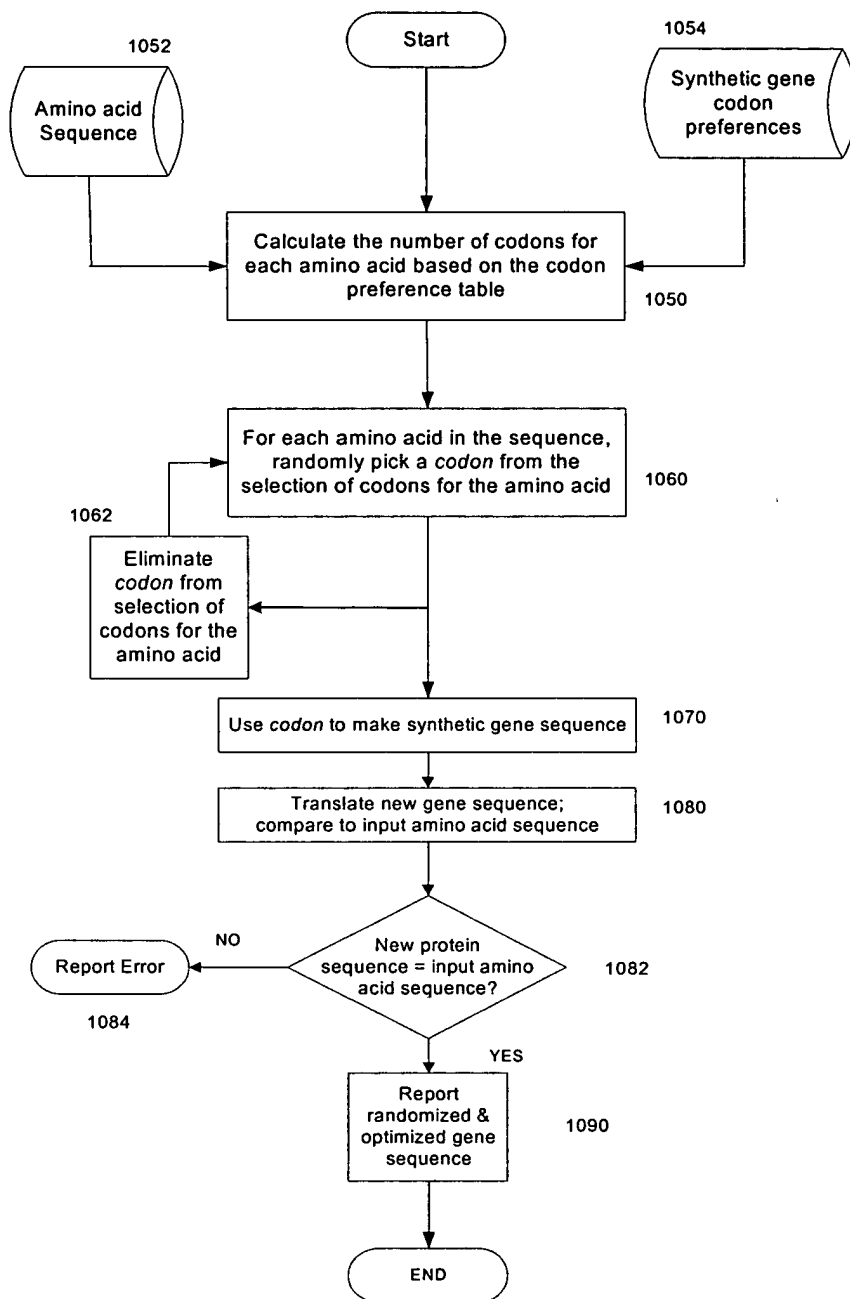


FIGURE 10B. Generation of randomized & optimized gene sequence

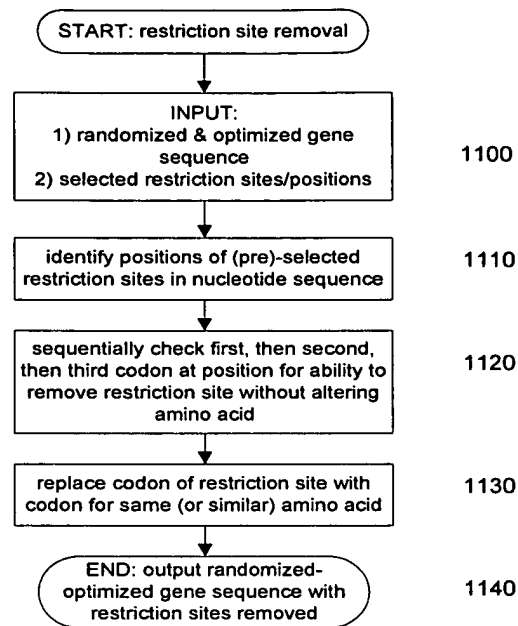


FIGURE 11. Restriction site removal

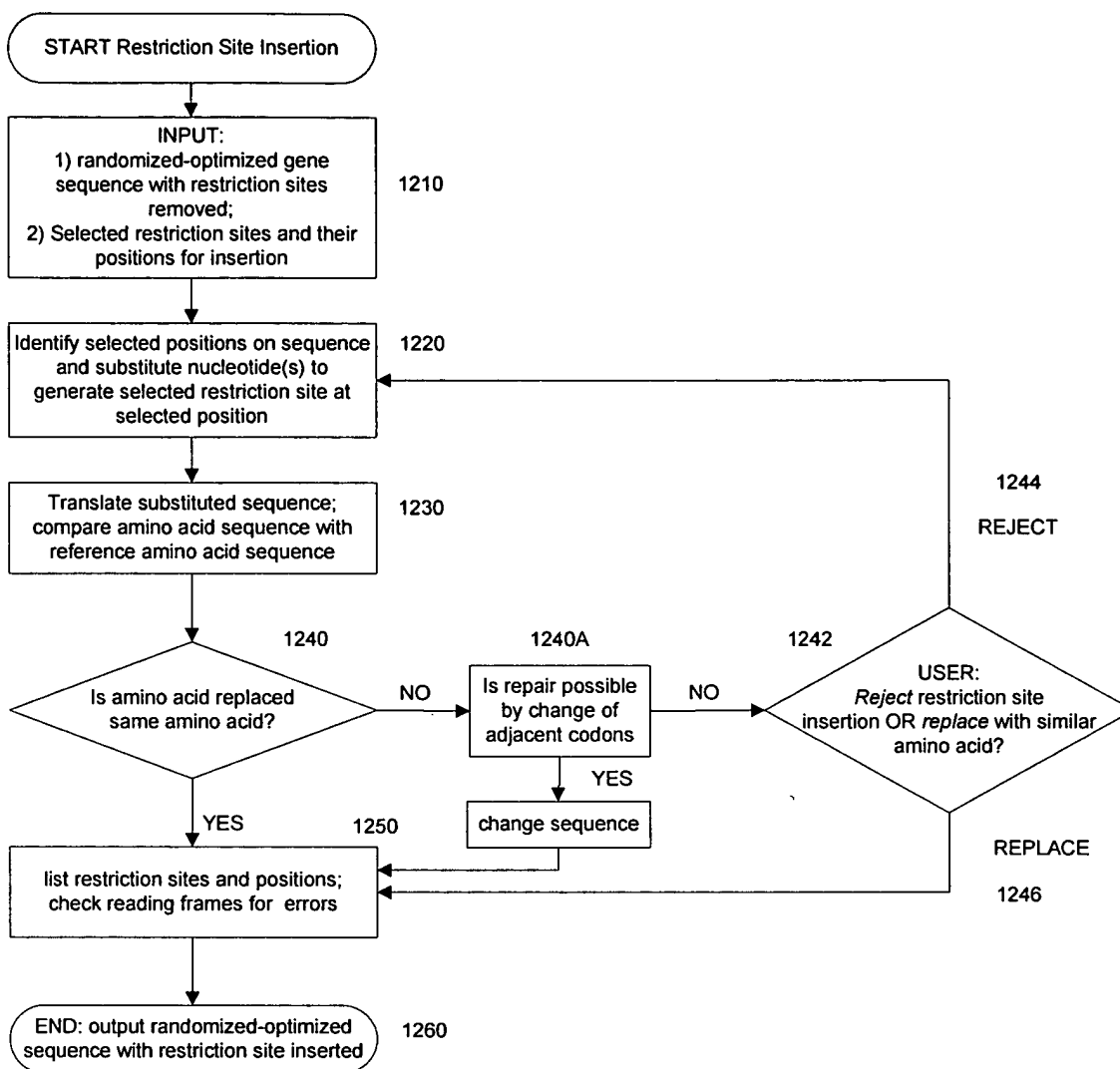


FIGURE 12. Restriction Site insertion

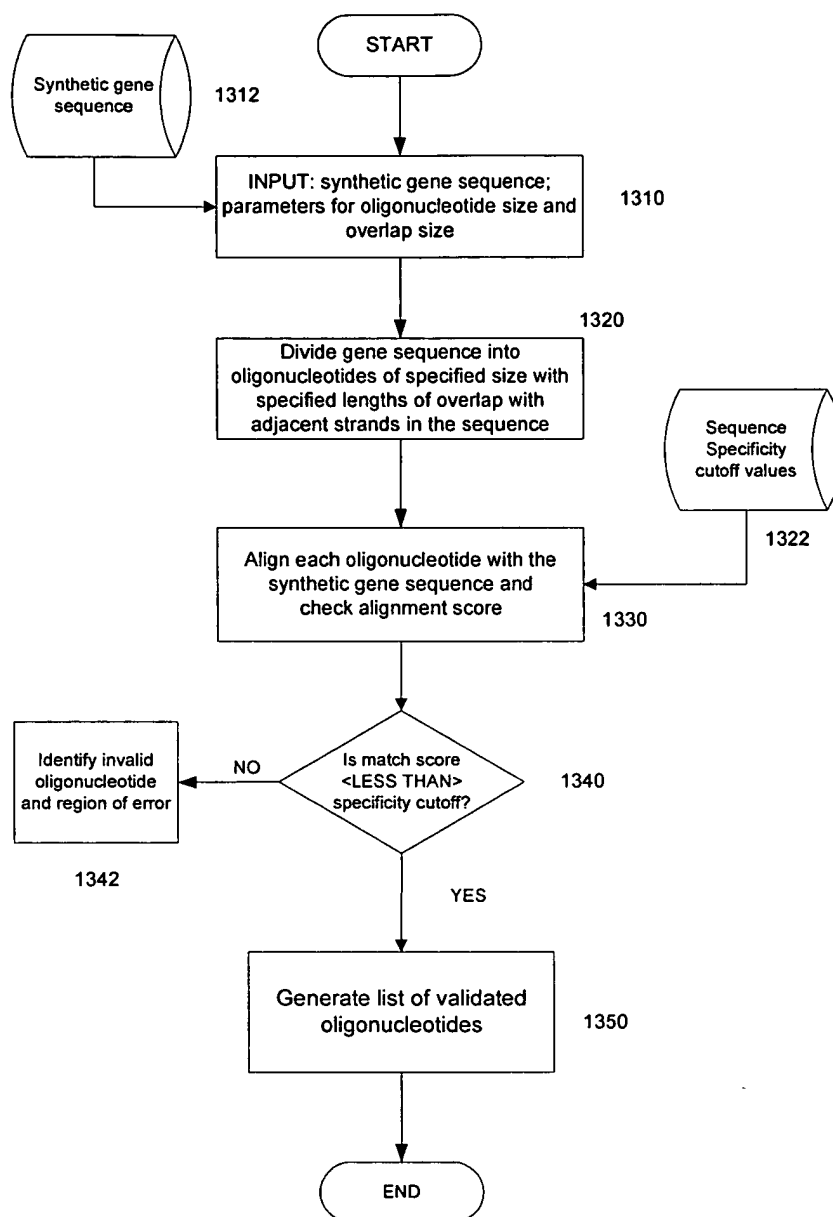


FIGURE 13. Generation of oligonucleotides for synthetic gene.

FIGURE 14

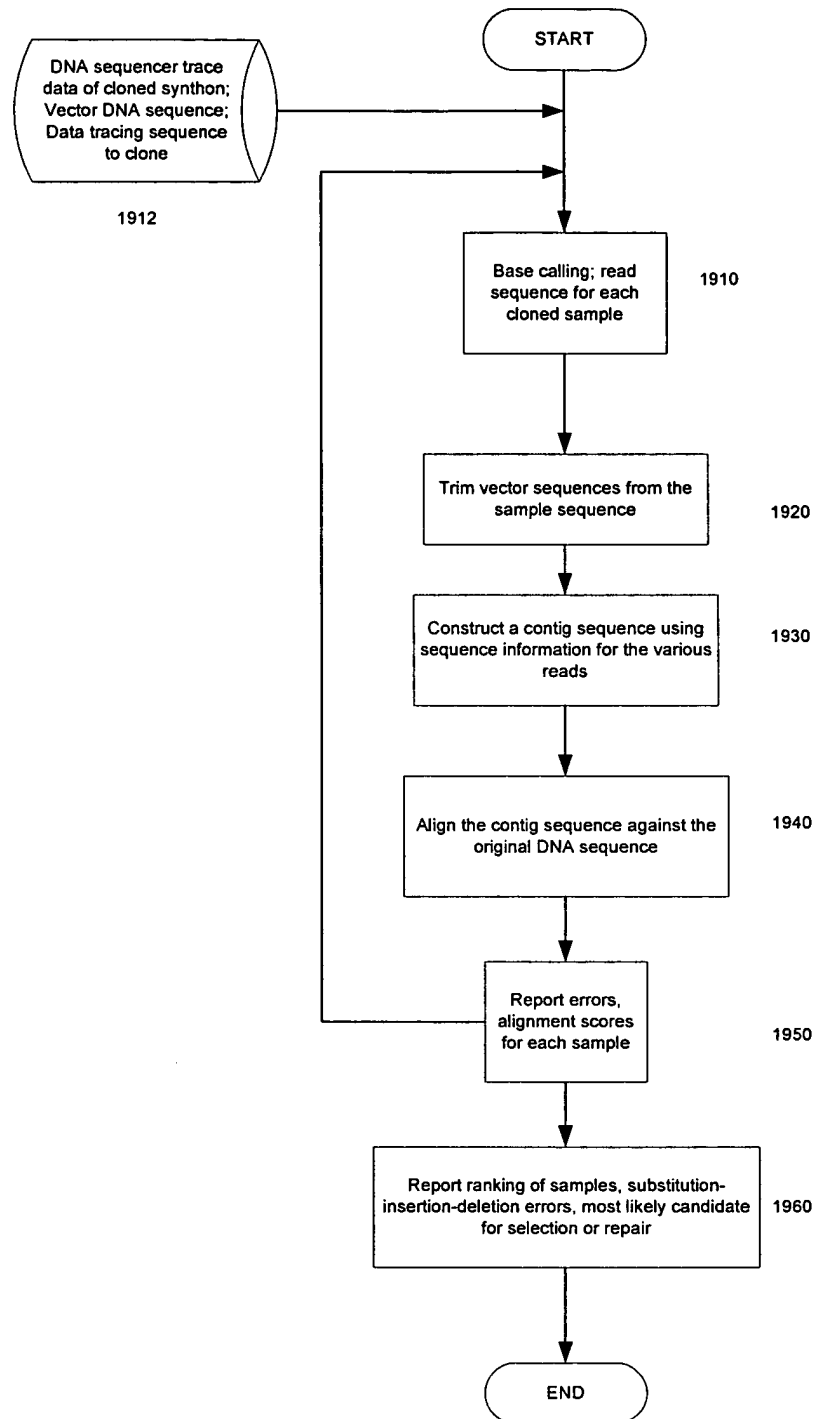


FIGURE 15

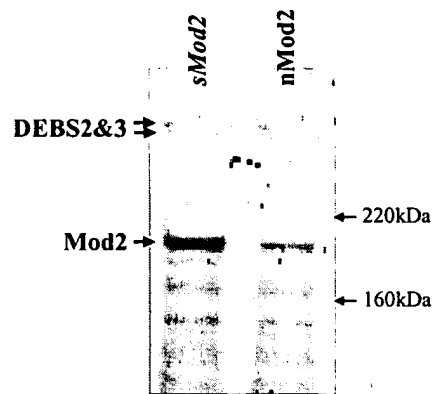
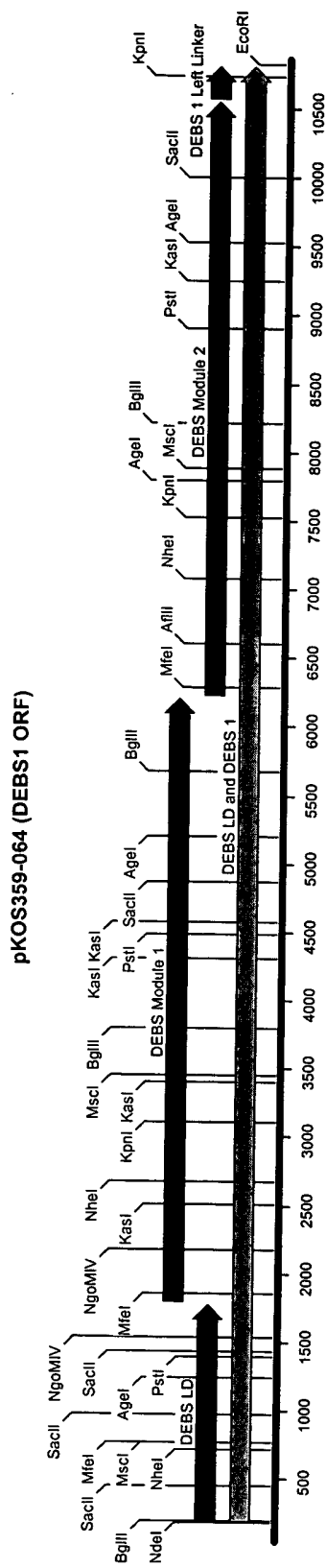
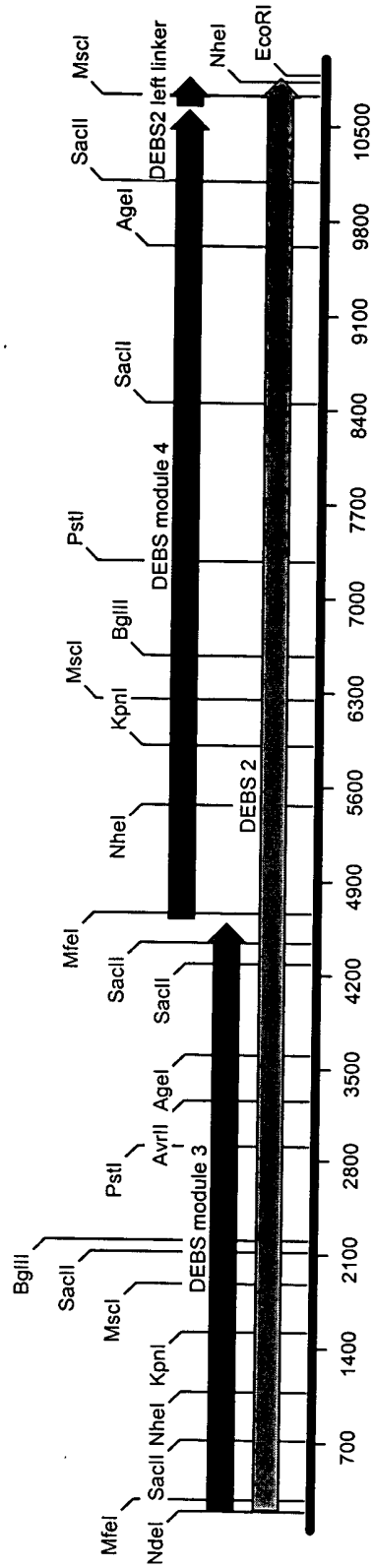


FIGURE 16

16A



pKOS359-059 (DEBS2 ORF)



16B

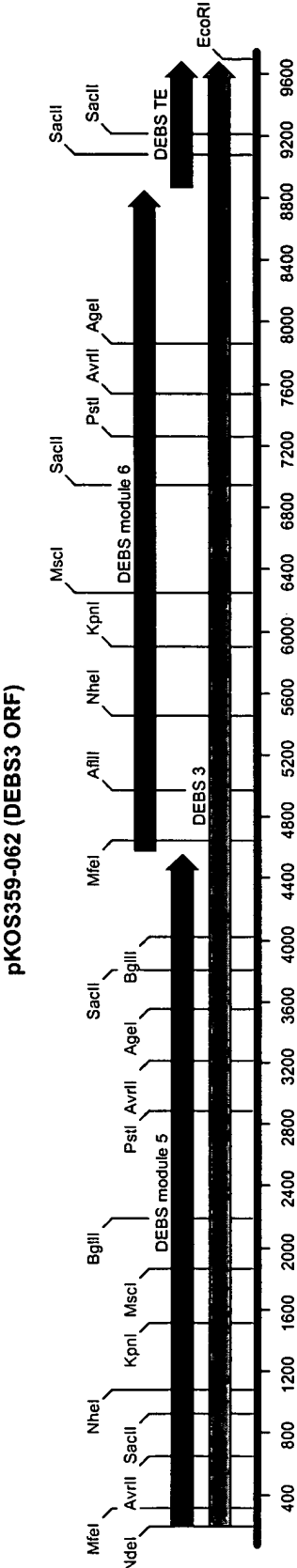


FIGURE 17

FIGURE 17 A

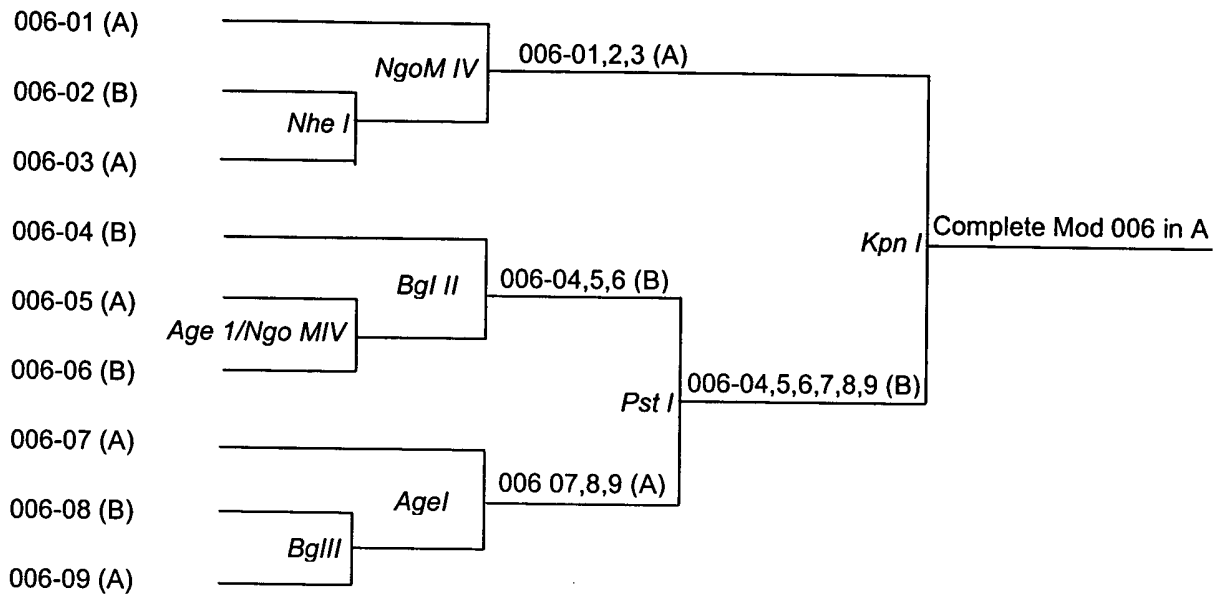


FIGURE 17 B

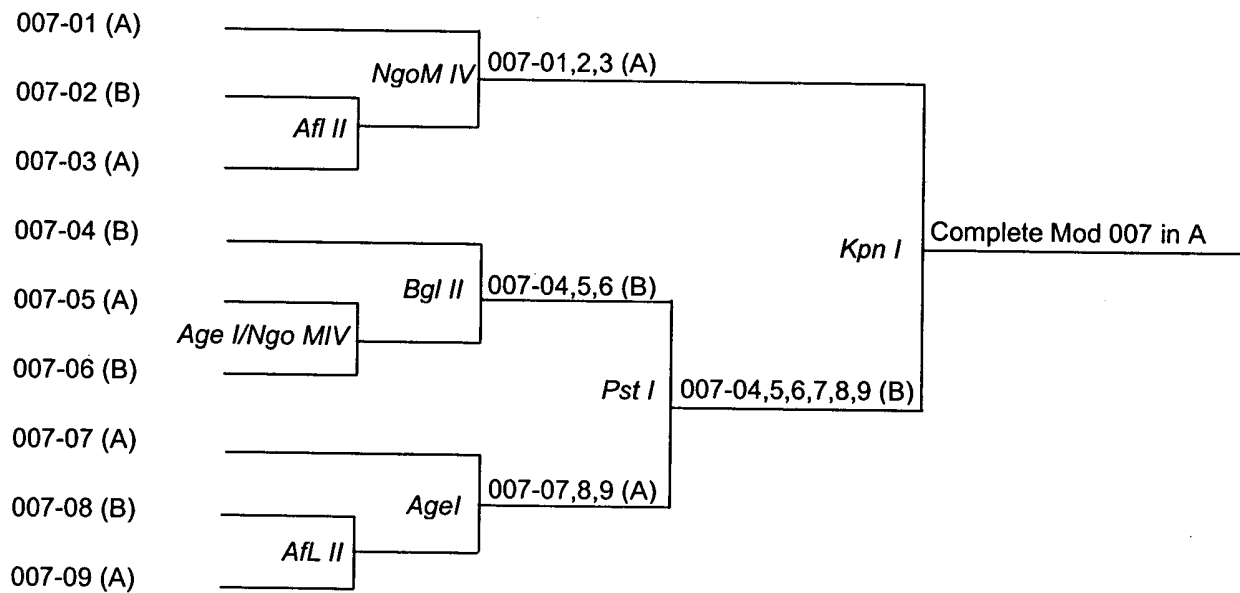


FIGURE 17 C

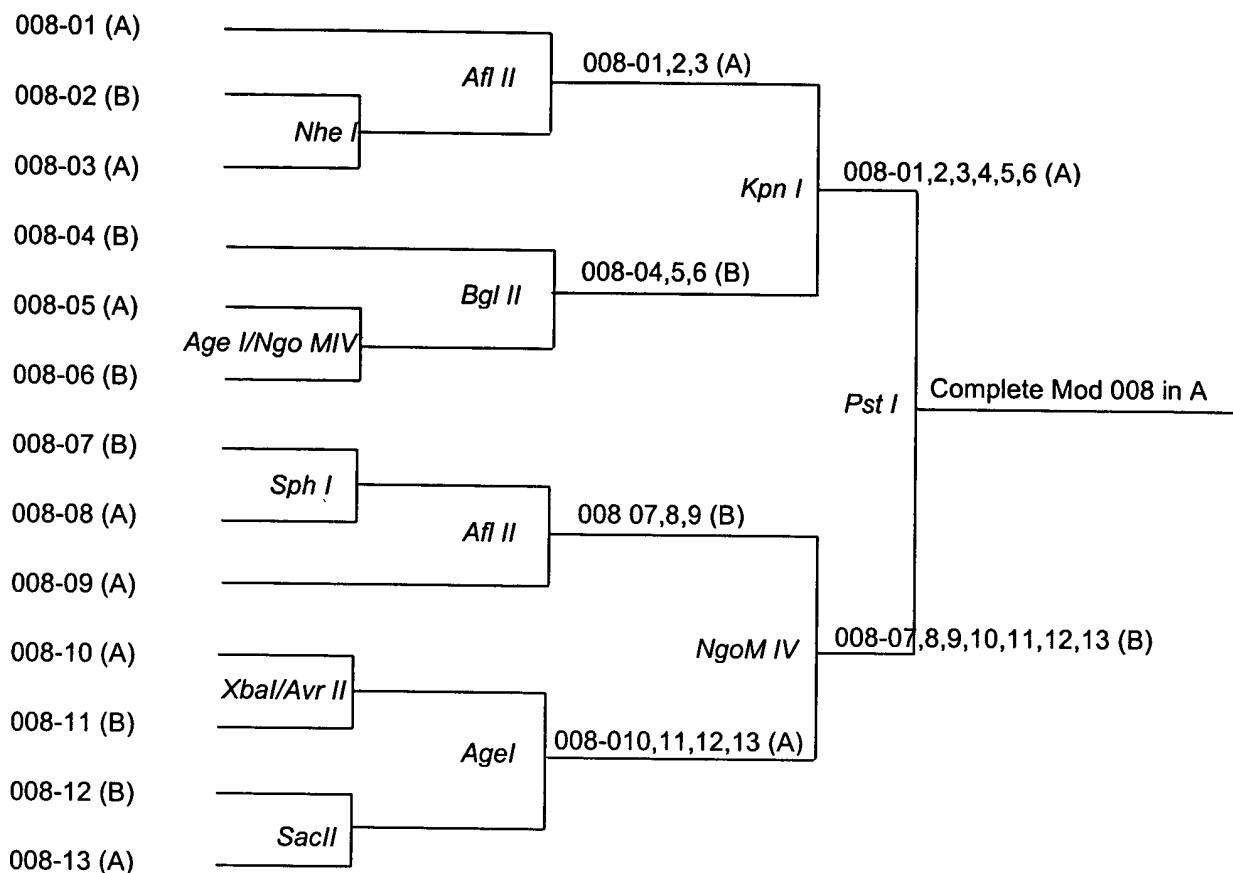


FIGURE 17 D

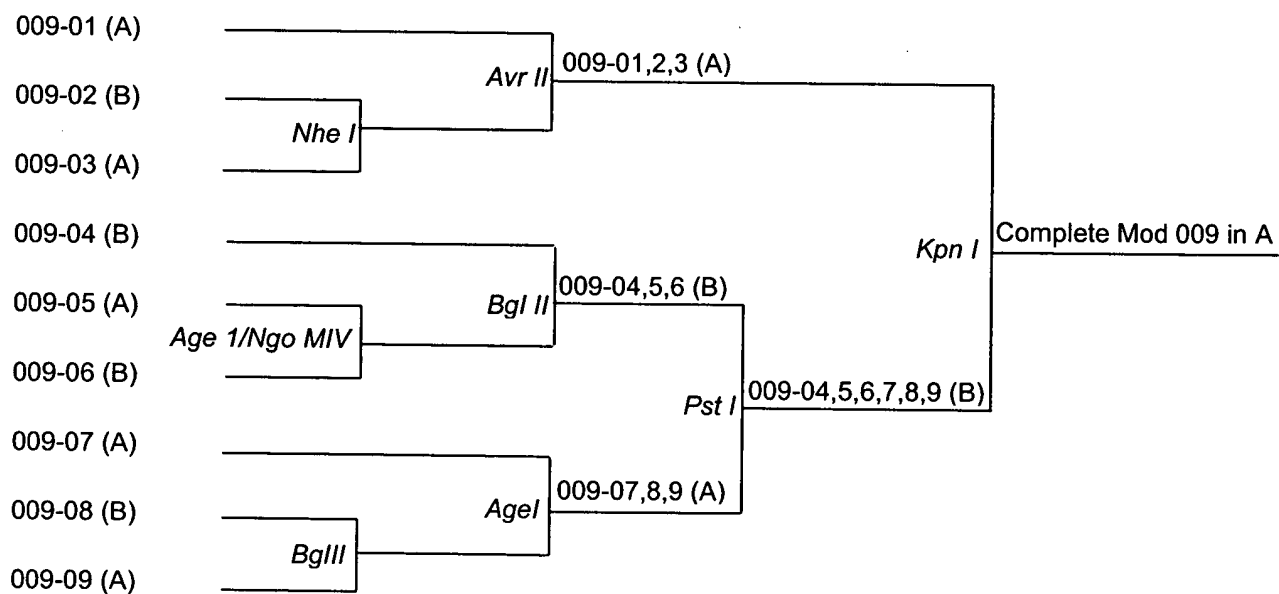


FIGURE 17 E

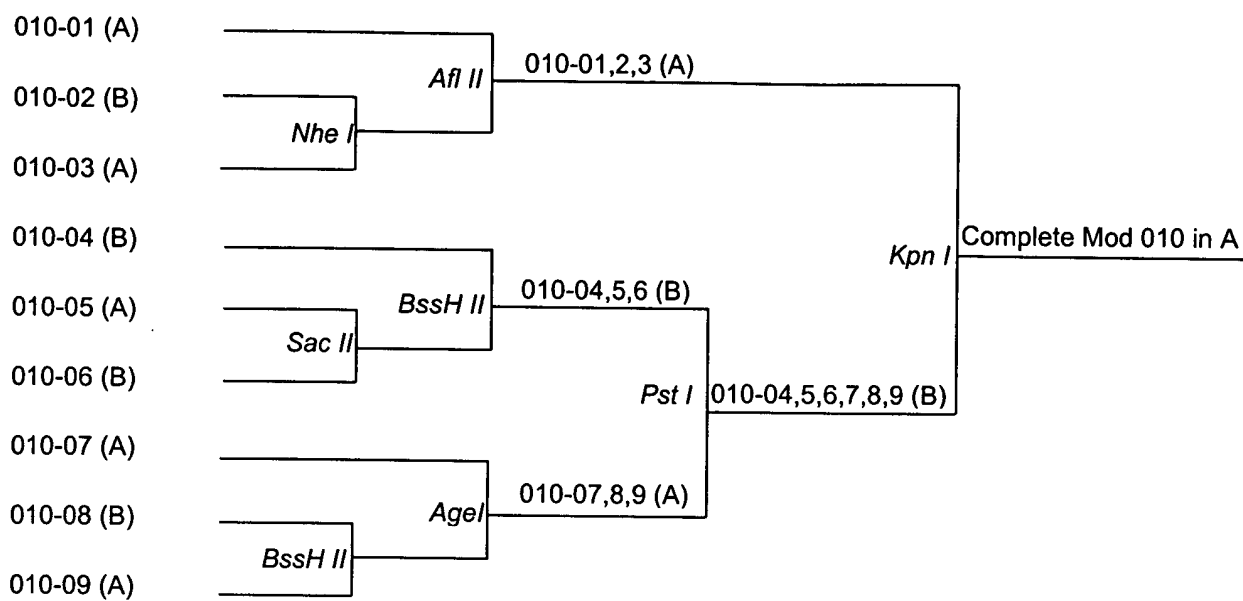
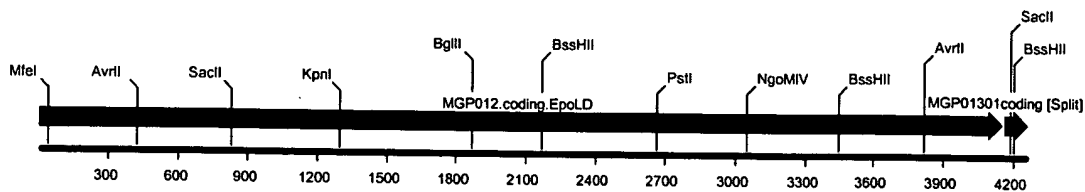
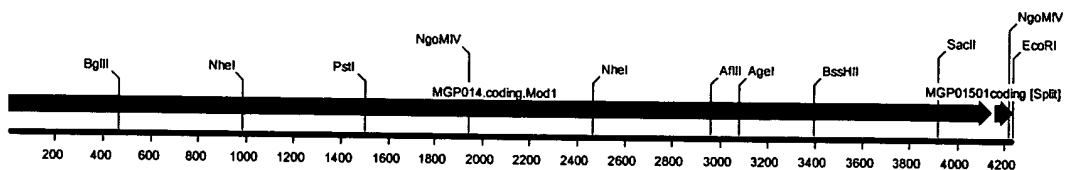


FIGURE 18

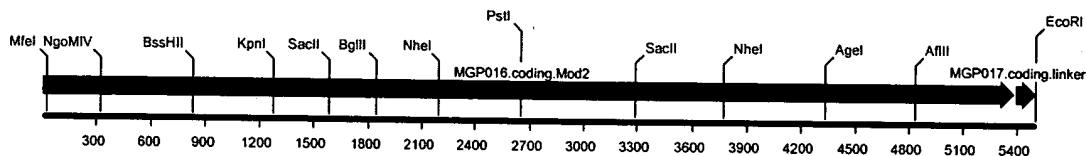
EpoA_MGP.final.dna



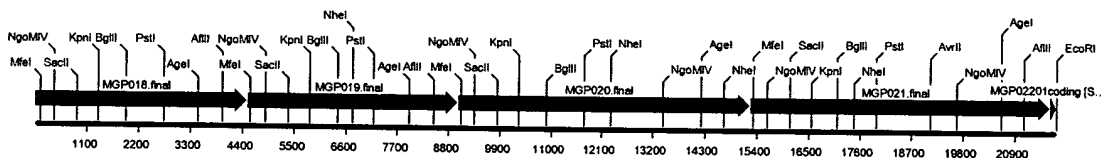
EpoB_MGP.final.dna



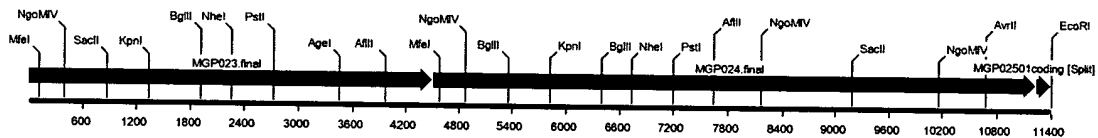
EpoC_MGP.final.dna



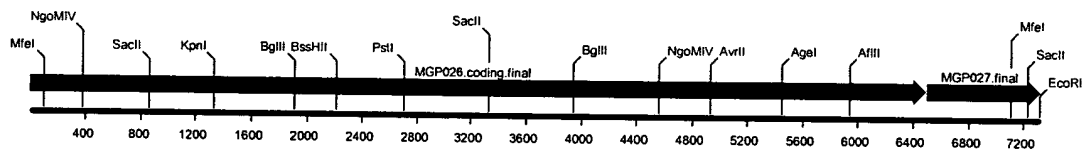
EpoD_MGP.final.dna



EpoE_MGP.final.dna



EpoF_MGP.final.dna



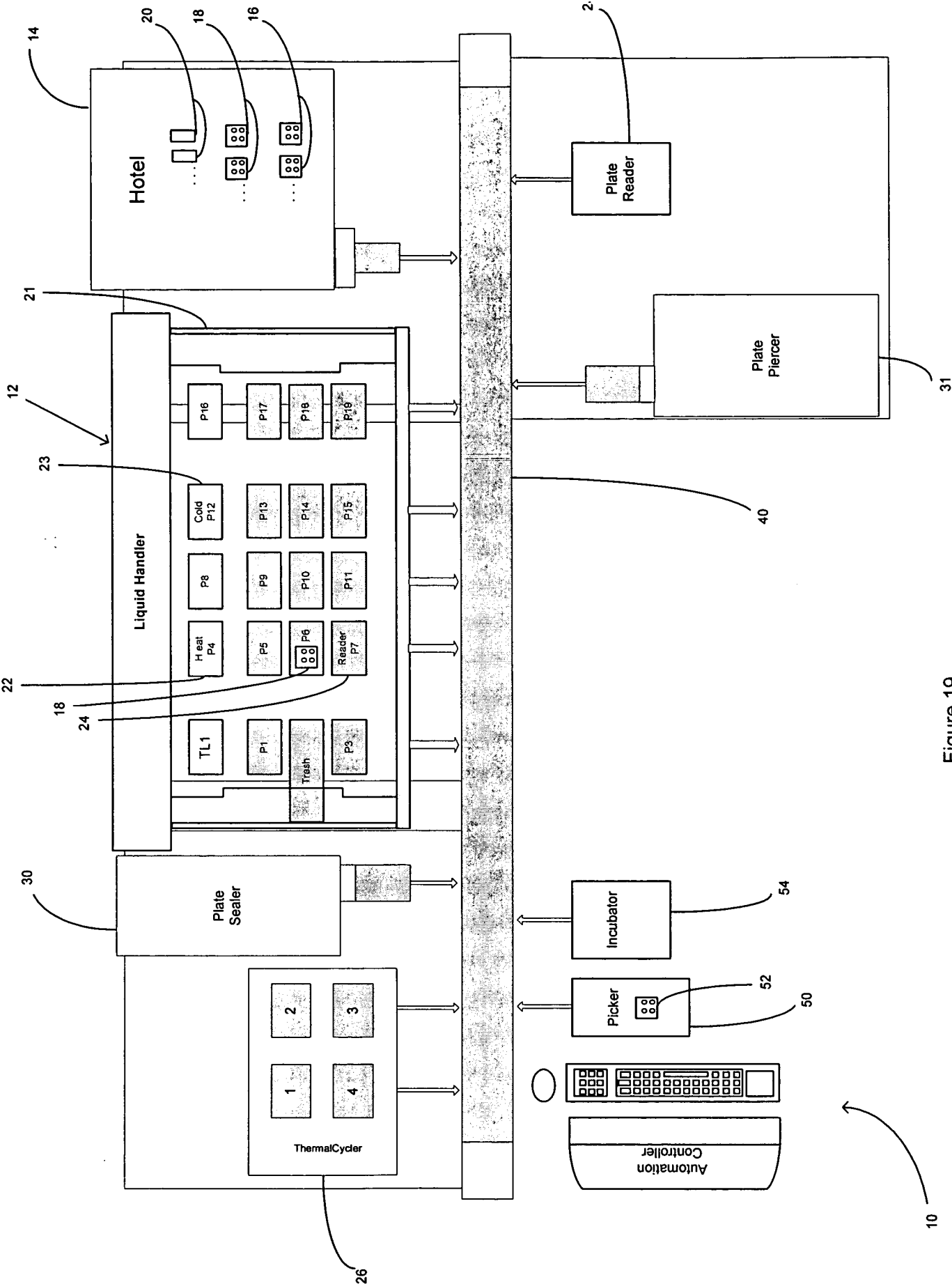


Figure 19